**To ensure safety while driving**

**and to comply with laws,**

**drivers should not watch video or**

**operate the video device while driving.**

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# Precaution

**THANK YOU FOR PURCHASING A BOSS AUDIO MULTIMEDIA PLAYER .**

Before operating the unit, read this manual thoroughly and keep it handy for future reference .

To avoid injury or accident , read the following precautions before installing and operating the unit .

**ON INSTALLATION**

- DO NOT install any receiver in locations where;
  - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
  - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
  - it may obstruct visibility.
- DO NOT operate any receiver while manipulating the steering wheel, as this may result in a traffic accident.
- The driver must not watch the monitor while driving.
- IF THE DRIVER watches the monitor while driving, it may lead to carelessness and cause an accident.
- IF YOU NEED to operate the receive while driving, be sure to look ahead carefully or you may be involved in a traffic accident.
- IF THE PARKING BRAKE is not engaged.“ ParkingBrake” flashes on the monitor, and no playback picture will be shown.
  - This warning appears only when the parking brake wire is connected to the parking brake system built in the car ( refer to the electric connection)

**ABOUT THE LIQUID CRYSTAL DISPLAY (LCD) PANEL**

Do not press on the LCD panel on the unit as doing so can distort the picture or cause a malfunction . The picture may become unclear , or the LCD panel may be damaged .

**NOTES ON CLEANING**

-Clean the LCD panel with a slightly damp soft cloth.

-Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray .

-Do not use alcohol to clean the screen .

If your car was parked in a cold or hot place, the picture may not be clear . The monitor is not damaged . The picture will become clear the temperature in your car becomes normal .

# Safety Information

**CAUTION:**

THIS DIGITAL VIDEO PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS DIGITAL VIDEO PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE .
HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE DIGITAL VIDEO PLAYER CORRECTLY AS INSTRUCTED.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.Use of this copyright protection technology must be authorized by Macro vision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

**REGION MANAGEMENT INFORMATION:**

This Digital Video Player is designed and manufactured to respond to the Region Management Information that is recorded on a Digital Video disc. If the Region number described on the Digital Video disc does not correspond to the Region number of this Digital Video Player, this Digital Video Player cannot play this disc.

# Disc Note

## Disc formats supported by this player

| | | |
|---|---|---|
| Digital Video | ***Digital Video*** | Audio and Video<br>Disc size 12 cm |
| VCD | ***VCD*** | Audio and Video<br>Disc size 12 cm |
| CD | ***CD*** | Audio<br>Disc size 12 cm |
| MP3 | ***MP3*** | Audio<br>Disc size 12 cm |

## Discs which cannot be played with this player

- Digital Video-RAM
- CDV
- CDG

## Handling and Cleaning

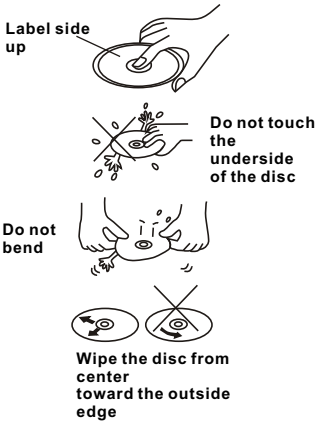
- Dirt, dust, scratches and warping disc will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damaging.
- Do not place discs in the following places:
  1.Direct sunlight
  2.Dirty, dusty and damp areas
  3.Near car heaters
  4.On the seats or dashboard

## Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistured with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner or conventional record cleaners as they may mar the surface of the disc.

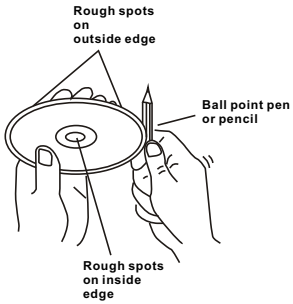
## Note:

A disc may become somewhat scratched (although not enough to make it unusable) depending on your handle it and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.




## Preparing New Discs with Rough Spots

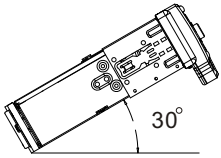
A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ball point pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



# Installation

**NOTES:**

1. Choose the mounting location where the unit will not interfere with the normal driving function of the driver.
2. Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.
3. Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
4. Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
5. Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
6. Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.
7. If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.

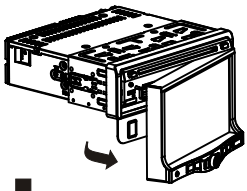



**DIN FRONT/REAR-MOUNT**

This unit can be properly installed either from "Front"(conventional DIN Front-mount) or "Rear"(DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods.

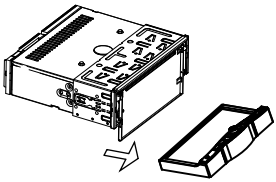
## Removing the unit

❶



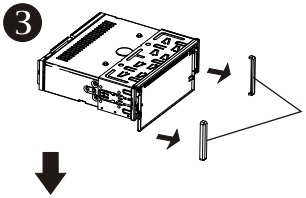
1. Press the **REL** button to release the front panel .

❷

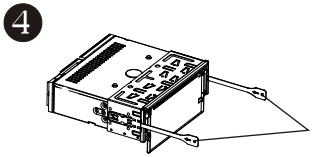


2. Remove the control panel .

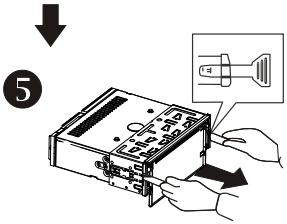
# Installation




3. Remove the PLASTIC COVER of the both sides away

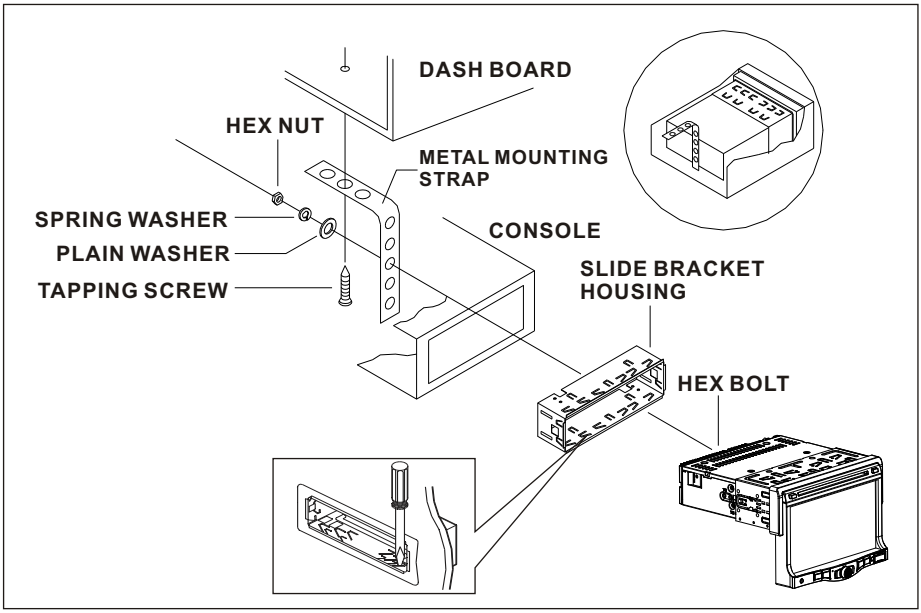



4. Insert the two KEY PLAT into the grooves at both sides of the unit as shown in figure until they click .



5. Pulling the levers makes it possible to remove the unit from the dashboard .

## Installation the unit



# Installation

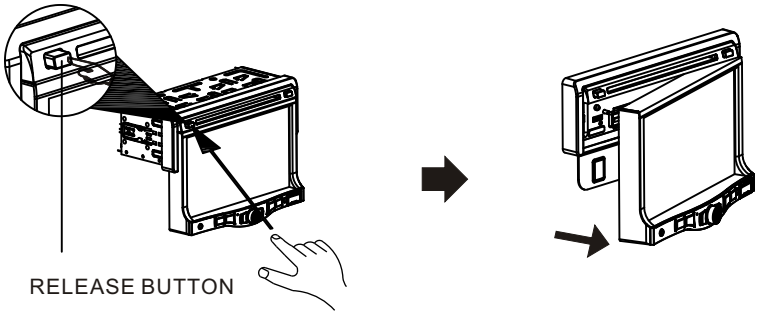
## How To Remove And Install The Front Panel

When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

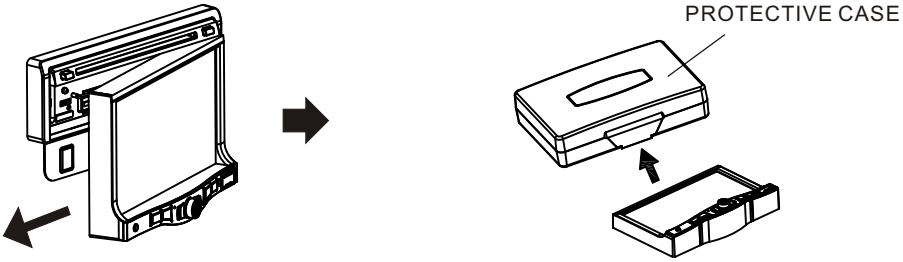
### Detaching Control Panel

Before detaching the control panel, be sure to turn off the power.

1). Press the **"REL"** release button and the left hand side of front panel will release.

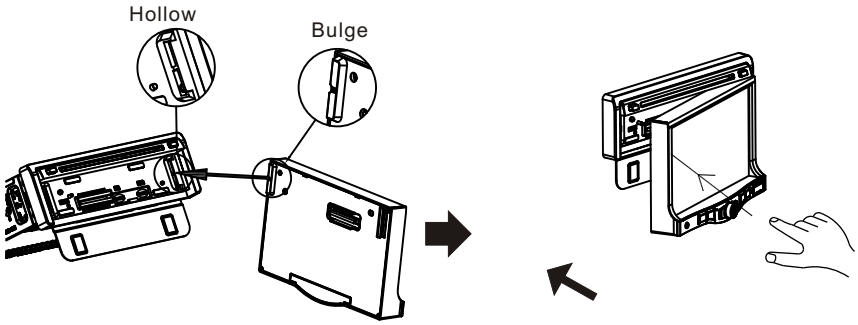



2). Pull-off the front panel and keep the front panel into the case .



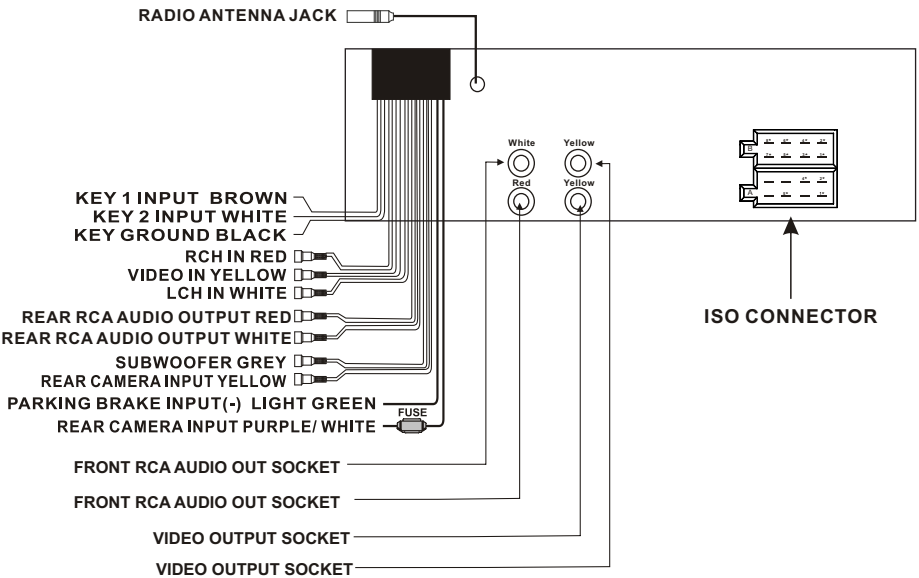

### Attaching Control Panel

1). First insert the right hand side of the front panel into the hollow of the unit .
(NOTE : the "bulge" point on the panel must be attached into the hollow of the unit .)
2). Gently push the left hand side of the front panel until you feel a " Click" .

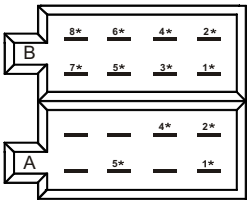


# Electric Connection

## *WIRING CONNECTION*




### *ISO CONNECTOR*




**CONNECTOR A**

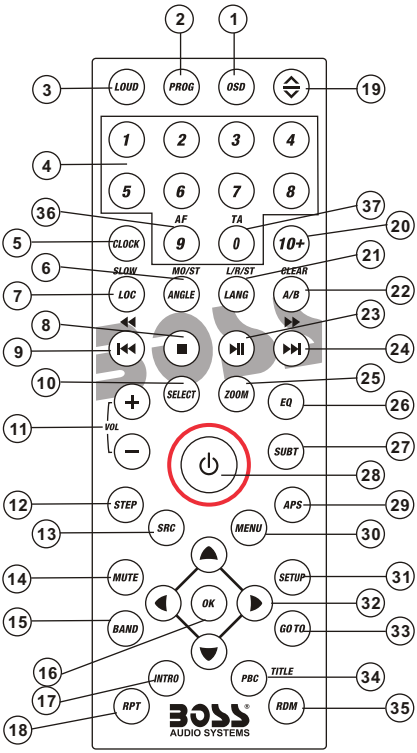
| | | |
|---|---|---|
| 1* | BLACK | GROUND |
| 2* | RED | IGNITION(+) |
| 4* | BLUE | AUTO ANTENNA |
| 5* | YELLOW | CONSTANT(+) |

**CONNECTOR B**

| | | |
|---|---|---|
| 1* | GREEN/BLACK | LEFT REAR(-) |
| 2* | GREEN | LEFT REAR(+) |
| 3* | WHITE/BLACK | LEFT FRONT(-) |
| 4* | WHITE | LEFT FRONT(+) |
| 5* | GRAY/BLACK | RIGHT FRONT(-) |
| 6* | GRAY | RIGHT FRONT(+) |
| 7* | VIOLET/BLACK | RIGHT REAR(-) |
| 8* | VIOLET | RIGHT REAR(+) |

**Note:**
the ground connection cable (parking brake B-) must be connected in order for pictures to be played back to the monitor. If the cable has not been correctly connected, warning message appears on the monitor.

# Remote Control



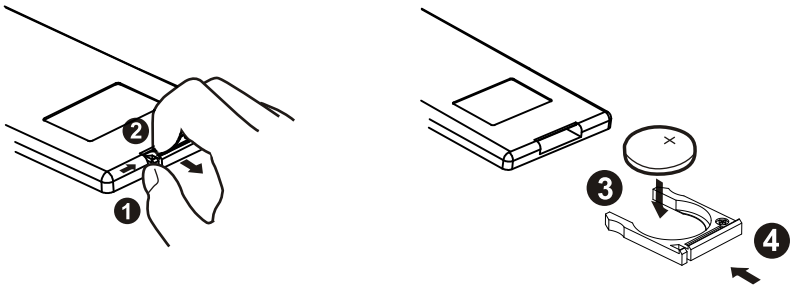

1. OSD BUTTON
2. PROG BUTTON
3. LOUD BUTTON
4. NUMBER(0~9)BUTTONS
5. CLOCK BUTTON
6. ANGLE/MO/ST BUTTON
7. LOC/SLOW BUTTON
8. STOP BUTTON
9. I<< BUTTON
10. SELECT BUTTON
11. VOLUME+/- BUTTONS
12. STEP BUTTON
13. SRC BUTTON
14. MUTE BUTTON
15. BAND BUTTON
16. OK BUTTON
17. INT BUTTON
18. RPT BUTTON
19. ANG BUTTON
20. 10+ BUTTON
21. LANG/L/R/ST BUTTON
22. A-B/CLEAR BUTTON
23. >II BUTTON
24. >>I BUTTON
25. ZOOM BUTTON
26. EQ BUTTON
27. SUBT BUTTON
28. POWER BUTTON
29. APS BUTTON
30. MENU BUTTON
31. SETUP BUTTON
32. ◀/▼/▶/▲ BUTTON
33. GOTO BUTTON
34. PBC/TITLE BUTTON
35. RDM BUTTON
36. AF BUTTON
37. TA BUTTON

# Remote Control

## Preparing the Remote Control

### Inserting the Battery

1.First push to inside as the direction indicated by the arrow (See ❶ )And then Remove the battery holder as the direction indicated by the arrow (See ❷ ).
2.Replace the battery Set a new battery property with (+)side up as illustrated (See ❸ ).
3.Insert the battery holder. Push in the holder to the original position(See ❹ ).




### Using the Remote Control

Face the remote control towards the player front face IR mark (remote control signal receiver).
Operation angle: About ±30 degree in each the direction of the front of the IR mark.

**Note :**

The lithium cell in the battery compartment of remote control has been secured for transport with a plastic . Before initial use please remove this plastic so that the remote control is ready for operation .

# Basic Operation

## Main Menu Operation

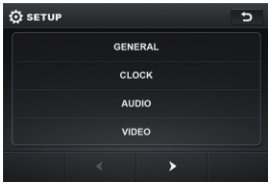
In many modes, touch the icon or touch the range to enter the main menu, the message like following as below.

1. POWER icon
   In any modes, touch the POWER icon to switch the unit off . The monitor will draw in automatically .

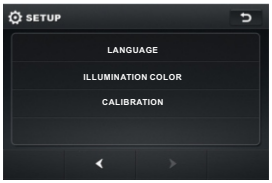
2. EJECT icon
   Touch to allow for inserting or ejecting disc.

3. SETUP icon
   Touch to enter the SETTING mode, the message will display as follow :

Touch the " " section on the setting menu, touch the " / " ranges to select the adjustment item, Touch the " " icon to return to the previous playback .

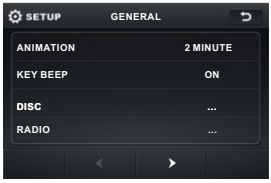



Setup interface 1

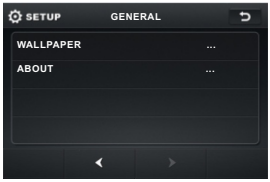



Setup interface 2

**ADJUSTABLE ITEMS:**




General setup interface1



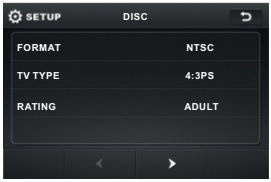

General setup interface2

**ANIMATION**
In **RADIO** mode, you can change the playing time of animation among of "OFF, 10S, 30S, 1M,90S, 2M, 3M and 4M ".

**Note:**
Please set the playing time of the animation to **" 10S "** for the first, when you turn the unit on .

**KEY BEEP** : ON or OFF.

**Disc setup as follow:**

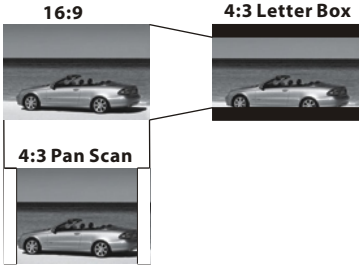


# Basic Operation

**FORMAT**

This player is capable of playing discs recorded in either PAL or NTSC formats. Make the selection based on whether you are connecting the unit to a PAL TV or an NTSC TV. You can also set the unit to AUTO (auto select). The disadvantage to autoselect is that each time you turn the unit on it checks to see what kind of monitor is connected, which causes a small delay and some flickering of the display image which you may find unpleasant.

**TV TYPE**




This is to select the appropriate TV aspect (4:3 or 16:9) according to the connected TV set.

**Normal/PS (For 4:3 TV)**
Played back in the PAN & SCAN style. (If connected to wide-screen TV, the left and right edges are cut off.)

**Normal/LB (For 4:3 TV)**
Played back in LETTER BOX style. (If connected to wide-screen TV, black bands appear at top and bottom of the screen.)

**Wide (For 16:9 TV)**
Select when a wide-screen TV set is connected.

**RATING**
Select to turn Parental Control on or off. The factory default password is **0000**. (The password must be used to make changes to the Parental Control menu below .)

Key in **"0000"** and then turn to rating then you can setting as follow:
**KID SAFE -> G -> PG -> PG-13 -> PG R -> R ->NC-17 -> ADULT**

**RADIO**
ST/MONO: touch to select stereo or mono.

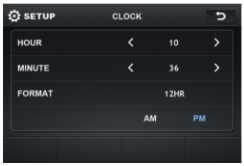
LOCAL: touch to select local or distant.

REGION: touch to select radio frequency as USA or EUROPE.

**WALLPAPER**
Touch to select wallpaper .

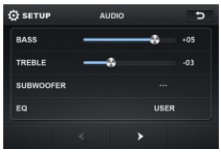
**ABOUT**
Touch to show the version information.

**CLOCK SETUP**
Touch the CLOCK to adjust the time and time format.

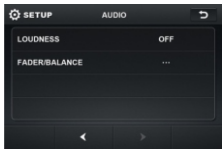



clock setup interface

**AUDIO SETUP**
Touch the audio to turn to audio quality adjustment.




audio setup interface1




audio setup interface2

# Basic Operation

TREBLE: -7 to +7
Adjust treble level .

BASS: -7 to +7
Adjust bass level .

SUBWOOFER: touch to adjust subwoofer volume and frequency.

EQ: touch to select audio mode as follow:
USER -> JAZZ -> CLASSIC -> POP -> ROCK

LOUDNESS: touch to select loudness effect as :OFF -> LOW -> MID -> HIGH

FADER/BALANCE:
BALANCE: R 0-10 to L 0-10

Adjust sound balance between left and right speakers .

FADE: F 0-10 to R 0-10
Adjust sound balance between front and rear speakers .

**VIDEO SETUP**

Video setup interface

**COLOR: -16 to 16**
Adjust the color for the picture-lighter or darker.

**BRIGHTNESS: -16 to 16**
Adjust if the picture is too bright or too dark.

**CONTRAST: -16 to 16**
Adjust the contrast of the bright and dark portion.

**TINT: -16 to 16**
Adjust the tint if the human skin color is unnatural.

-Adjustable when “NTSC “ is selected for “NTSC/PAL “ .

**LANGUAGE**
Touch to select OSD language.

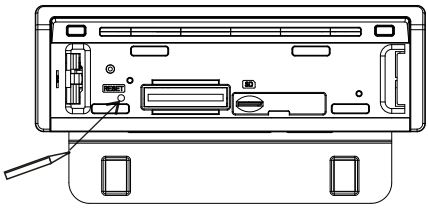
**ILLUMINATION COLOR**
Touch to select the backlight for all buttons. Tap auto icon the backlight change automatically.

**CALIBRATION**
Touch the arrow as show to calibration the display.

## Reset Factory Settings

RESET button is placed on the housing and must be activated with either a ballpoint pen or thin metal object.
The RESET button is to be activated for the following reasons:

A. Initial installation of the unit when all wiring is completed.
B. All the function buttons do not operate.
C. Error symbol on the display.



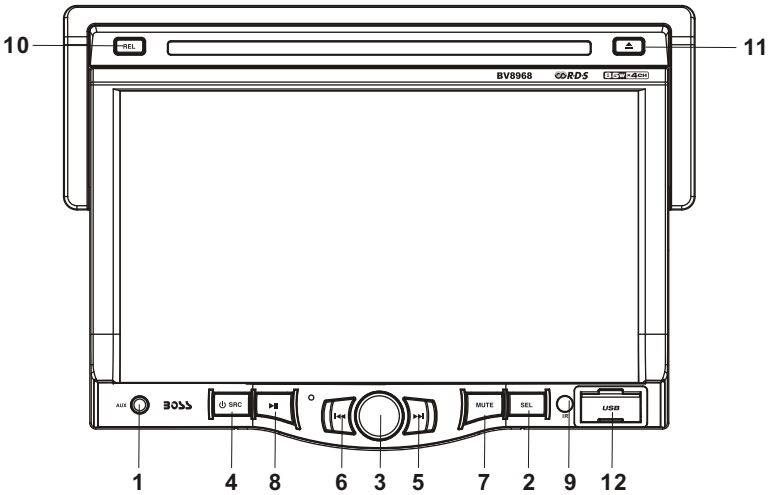

**NOTE:**
If RESET is selected, all memory data will deleted, please re-adjust .

## Rear View Camera

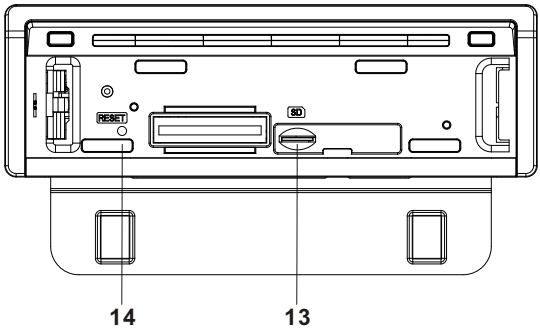
When connecting the rear view camera the mirror image of the rear view is automatically displayed on the monitor when you change the gear to the back position.
(Note: additional monitor can not display the image.)

# Control Panel

## UNIT KEYS




Control Panel




Sliding Plate diagram after removing Control Panel

### 1. AUXILIARY INPUT JACK

Insert an external device to this AUX jack in order to have audio output of the device through the unit.

### 2. SEL BUTTON

Press the SELswitch between BASS,TREBLE,BALANCE, FADE,COLOR, RIGHTNESS, CONTRAST, TINT, press and hold the button to display REG (in radio mode), PI(in radio mode), TA(in radio mode), AF(in radio mode), LOUD, SWF, EQ, TIME 12H/24H, CLOCK, BEEP,EUR/USA FREQ, ANIMATION.

After switching on the desired mode above, rotate VOL knob to set it.

### 3. VOL KNOB

In normal mode, the VOL knob is used to increase or decrease the volume.

# Control Panel

**4. ⏻ /SRC BUTTON**

In power off mode, press it to turn on the unit.

In power on mode, short press it repeatedly to select one mode of the RADIO, DISC, USB, CARD, AUX and AV; long press it to turn off the unit.

**5/6. >>| and |<< BUTTONS**

In radio mode, long pressing |<< or >>| button can automatically search down or up for an available station beginning from the current frequency; Briefly pressing |<< or >>| button can manually search down or up for a your desired station beginning from the current frequency.

In media mode, pressing |<< or >>| button can play the previous or next track; continuously and long pressing |<< or >>| button can fast backwards or forwards at the following multiple of normal speed: x2, x4, x8, x20.

**7. MUTE BUTTON**

Press it button to switch of the loudspeakers for a short period. The word MUTE flashes in the display. Press it again to cancel the mute function. This function can also be cancelled by rotating the VOL multifunction button.

**8. >II BUTTON**

In DISC/USB/SD mode, During playing, press >II button to pause the current playback, press again to continue play;

**9. IR sensor**

**10. REL BUTTON**

Press it to detachable the front panel.

**11. ⏏ (EJECT) BUTTON**

Insert the disc, label side facing up, until the mechanism senses its presence and draws the disc in. Press it to eject the disc.

**12. USB PORT**

For information about connecting a USB device, please see USB operation.

**13. SD CARD SLOT**

**14. RESET BUTTON**

Press this button to return to factory settings.

# Touch Screen Operation

## RADIO OPERATION

### Listening to Radio

Touch the RADIO ICON in home menu to enter the RADIO mode. In radio mode, tap icon that the display turn dark, tap twice turn dark more, tap thrice to turn off the display, and tap anywhere of the display to turn it on again.

### Selecting The Frequency Band

Touch the screen of **" BAND "** section repeatedly to select the band , the message will show in turn :

**FM1** → **FM2** → **FM3**

↓

**AM1(MW1)** → **AM2(MW2)**

### When an FM stereo broadcast is hard to receive

Press **ST/MO** button on the remote control to select the MONO or STEREO mode .

### Start Searching For a Station

**Manual Search**

During Radio mode, briefly touch " " to increase frequency by one step of channel spacing.

Briefly touch " " to decrease frequency by one step of channel spacing.

**Automatic Search**

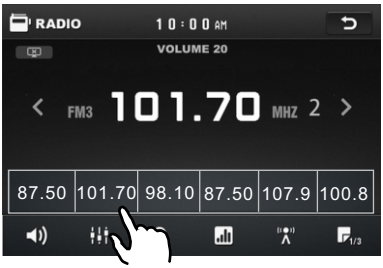
During Radio mode, touch and hold (for more than 2 seconds ) either " / " ICONS to start search for a radio station automatically.

### To tune in strong-signal FM Station only (LO/DX function)

In radio mode, Press LOC button on the remote control or tap icon to select select LOC/DX mode of Local and Long-distance traffic news.

## Storing and Listening to a Memory Station

### Setting Memory




With this system, a total of 30 stations can be stored in the memory of six buttons. Each band stores up to six preset stations. The stations might be FM1, FM2, FM3, AM1(MW1), and AM2(MW2) band.

The operation is as below :

**- Store in Memory**

>Select the frequency band

>Select the station

>Press and the station until it show the frequency band your select.

**- Retrieve a preset station**

Touch the **1-6** ranges briefly to retrieve a station which had been stored in the memory in advance the chose number is shown on display .

# Touch Screen Operation

## Automatic Memory Storing & Program Scanning

### Automatic Preset Setup

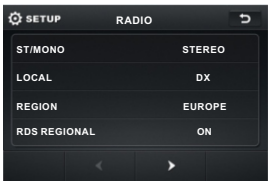
In Radio Mode, touch and keep (for more than 2 ' S) the screen of " " range to active automatic station storage.
The radio searches within the current frequency band, e.g. Fm3, for the stronger signal level until the search cycle has finished . The six strongest stations are then allocated to the corresponding storage locations .
Then the station of the first storage location is set .

### Scan Function

In Radio mode, briefly touch the " " section on the touch screen , the radio briefly plays all the preset stations of the frequency band .

## RDS FUNCTION

In home menu, then touch the " " ICON to enter the set mode, the message in the display :

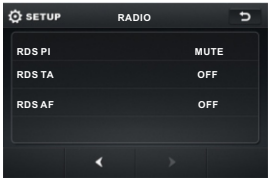



### ADJUSTABLE ITEMS:

**REGION SET**
Touch to switch the REGION function ON and OFF.

**REG FUNCTION**
at certain times some stations divide up their programs into regional programs with varying content .
**REG ON :** the message "REG ON" will appears in the display for a few seconds .
Note :
- the display capacity is limited . It is possible that in the double display mode some segments of the display are deleted .
- the function REG ON prevents the radio from switching to alternative frequency which have a different regional program content .

**REG OFF :** the program identification(PI) of the regional program is ignored during the search for an alternative frequency (AF) or a program identification (PI) .




Select RDS REGIONAL to turn RDS function on or off.

**PI SET**
Touch to change between PI MUTE and PI SOUND .

**PI MUTE / PI SOUND**
**(only for radio operation)**
If you are in an area where two program identifications (PI) overlap, you can select the option **PI SOUND** and **PI MUTE** for playback of the sound. Alternate switching of the program identification should be avoided .

**PI SOUND :**
If switching nevertheless occurs the sound of another station is heard for less than one second .

# Touch Screen Operation

**PI MUTE :**
the sound of another station is suppressed .

## TA Traffic Announcement
(Priority For Traffic Information)

In Radio mode, touch the cursor button to switch the TA function ON and OFF .
When the TA function is activated, the TA symbol appears in the display .
During radio operation in one FM frequency band the search for a traffic announcement station is started automatically (TA SEEK) .
If an FM station is being received which transmits the latest traffic announcements from time to time, the TP display lights up.

When the TA function is switched on , the FM traffic automatically interrupt CD operation (the word **TRAFFIC** appears in the display).

The volume level is increased to the minimum value for the transmission of traffic announcements.
After the traffic announcements has finished, the program that was previously running is resumed.

**Interruption of the TA Function:**
If you would like to interrupt the current traffic announcement, touch the TA section on screen briefly . This does switch off the TA mode .

## AF FUNCTION
(Alternative Frequencies)

In Radio mode, touch the cursor button to switch the AF function ON and OFF .

AF is a function that works with the help of RDS (Radio Data System) and can only be used with FM stations. The radio searches in the background for the best frequency reception of the station that has been tuned into .

Touch the AF section on touch screen or swing and keep the SEL knob in the TA/AF direction for about 2 seconds , the AF function is activated. The AF symbol appears in the display .

When the AF function has been switched on, the radio continuously tests the signal strength of the AF frequency .
The test interval for each AF frequency depends on the signal strength of the current station and varies from a few minutes in the case of weak signals.
Whenever the new AF frequency is stronger than the station that is currently tuned in , the radio switched to this frequency for a short time for a short time and the message
“NEW FREQUENCY “ is displayed for one or two seconds.

## PTY FUNCTION

In Radio mode, touch screen of “PTY” range to select the Program type .

**PTY Selection of the program type**
besides the stations name, some FM stations also transmit information on the type of program. This information can be displayed by your car radio .

Examples of such types of program are :
**SPORT NEWS POP WEATHER .....**

With PTY function you can specifically select stations transmitting a particular type of program. Touch the PTY on screen repeatedly to call up the PTY selection menu. The message “PTY SEEK” then appears briefly in the display .
When PTY has been selected the radio start searching for corresponding PTY information and stops when the PTY information has been found, “NO PTY” appears in the display. If the PTY information being searched for no longer exists, the PTY function automatically switches to normal mode .

# Touch Screen Operation

## Media Operation

In audio play mode, the message will display as below :
(When Parking Brake is applied .)

Mute function

To select the Equalizer mode

Fast forward

Fast backward

Intro Function

To decrease the volume level

To increase the volume level

Loudness Function

Subwoofer Function

TA Turning pre-switching for traffic announcements on and off

AF Switching on and off an Alternative frequency

Play/Pause the playing

To skip the next track

To skip the previous track

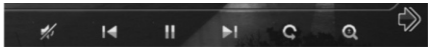
Repeat Function

Random Function

Previous menu

In audio play mode, tap icon that the display turn dark,tap twice turn dark more, tap thrice to turn off the display, and tap anywhere of the display to turn it on again.

**The icons for other mode**
(The same icon have the same function in each mode)



In PHOTO playing ,tap to change the photo direction.

ZOOM IN and OUT.

For page turning.

For page turning.

For page turning.

For page turning.

For page turning.

# Touch Screen Operation

## BASIC OPERATION

### Stopping Play

Touch the ■ button on remote to stop the unit playback. press the ⏯ button to start play.

### Pause (still picture)

Touch the " ⏯ " section on touch screen during playback will stop play temporary, touch it again to return the normal playback .

### Rapid Forward/Rapid Reverse

During DISC playback, touch the screen of " ⏩ / ⏪ " range the speed of rapid forward/reverse changes according to the disc as follow:

### Digital Video/VCD/CD/MP3:

Normal Playback 2x → 4x → 8x → 20x

### Skipping Track

During DISC playback, Touch the ⏭ / ⏮ section on the touch screen to skip to next/back one track.

**Note :**
For some VCD2.0 disc (PBC-playback control), above these buttons may be unavailable .

### Zoom Function

Touch the button repeatedly, the displayshow as **"zoom 2, zoom 3, zoom 4 , zoom ½, zoom 1/3, zoom 1/4 , zoom off . "**

Use the direction keys (▲ / ▼ / ◀ / ▶ on remote control to move the enlarged picture .

**Note:**
when the JPEG disc playback, in normal mode, you can use the cursor buttons to rotate the picture .
Press UP to invert an image .
Press DOWN to mirror an image .
Press LEFT to rotate an image to left .
Press RIGHT to rotate an image to right .

## SELECTING PLAY MODES

During the Disc playback, select the "RPT, RDM, INT " to select your favour play mode.

### 1). REPEAT FUNCTION

**FOR Digital Video :**
Tap the icon or press the **RPT** button on the remote control to select REPEAT mode as follows :

CHAPTER REPEAT ON → TITLE REPEAT ON → REPEAT ALL → REPEAT OFF

**FOR VCD/CD :**
Tap the icon or press the **RPT** button on the remote control to select REPEAT mode as follows :

REPEAT ONE → REPEAT ALL → REPEAT OFF

**FOR MP3 :**
Tap the icon or press the **RPT** button on the remote control) to select REPEAT mode as follows :

REPEAT ONE → REPEAT FOLDER(or DIR) → REPEAT ALL → REPEAT OFF

### 2). INTRO FUNCTION

**FOR CD :**
Tap the icon or press the **INT** button on the remote control to play the previous 10 seconds part of each track/chapter on disc.
(Touch it again to cancel this mode)

# Touch Screen Operation

**FOR VCD :**

Press the **INT** button on the remote control. It display will following menu as below :

**SEQ PLAY** → **INTRO 1**

Note: when select the **INTRO** Mode, this player to start to play the previous 15 seconds part of each track/chapter on disc. (Touch it again to cancel this mode .)

**FOR Digital Video/MP3 :**
For Digital Video/MP3 , press the INT button is not available .

### 3). RDM(RANDOM) FUNCTION

During DISC playback, touch screen of " " section ( press the **RDM** button on the remote control to play in random. Each play mode the order is different . (Depend on the disc used for VCD).
Touch it again to cancel this function .

**Note :** in random mode, the ⏮ button is not available .

## ON-SCREEN DISPLAY FUNCTION

OSD

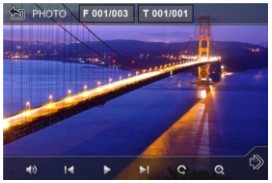
During playback, touch the screen or press the **OSD** on the remote control, it will display the following as below :

Note: touch the screen or press the OSD on the remote control again to cancel the OSD information.

1. Digital Video , when it is on, it will display the information such as:

2. Example for VCD/SVCD, when it is on, it will display the information such as:

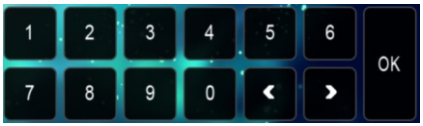
3. Example for Movie or PHOTO . When it is on, it will display the information such as:




## DISC Search (GOTO)

**FOR Digital Video :**
Touch the screen as show or press the GOTO button on remote control;

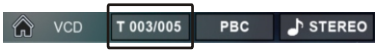
the screen will display the following message :



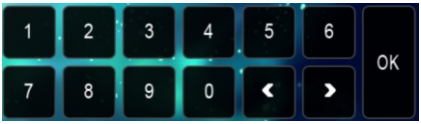

Touch the ‹ › to select the your adjustment item, then select the item your favour by touching the numberic buttons , then touch the **OK** button to confirm .

# Touch Screen Operation

**FOR VCD (With PBC OFF) :**
Touch the screen as show or press the GOTO button on remote control;

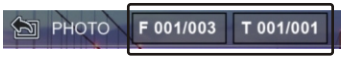



the screen will display the following message :

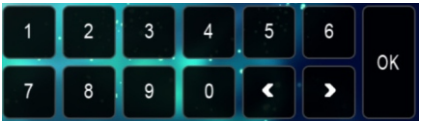



Touch the to select the your adjustment item, then select the item your favour by touching the numberic buttons , then touch the **OK** button to confirm .

**For Movie/Photo:**
Touch the screen as show or press the GOTO button on remote control;




the screen will display the following message :




Touch the to select the your adjustment item, then select the item your favour by touching the numberic buttons , then touch the **OK** button to confirm .

# Touch Screen Operation

## Digital Video Special Function

### 1. Multi-subtitle Language Function (for Digital Video Only)

During Digital Video playback. Touch the OFF icon on touch screen(or press the **SUBT** on the remote) .

Each time the button is pressed or touch, number of the subtitle language changes in sequential order.

**Notes:**
- The language number is different according to the disc.
- Some discs only contain one subtitle language.
- When no different subtitle language are recorded, **"INVALID KEY"** will be displayed at screen left top corner.

### 2. Multi-Audio Language Function

**For Digital Video:**
During Digital Video playback , touch the 1/2 icon on touch screen (or press the **LANG**

on the remote .) Each time the button is pressed or touch , number of the audio soundtrack language changes on sequential order.

**Notes:**
- The language number is different according to the disc.
- Some disc only contain one language soundtrack
- When no different language soundtrack are recorded **"INVALID KEY"** will be display at screen left top corner.

**For VCD/CD:**
during playback, touch the **AUDIO** section of the touch screen or Press **AUDIO** on the remote . It is possible to switch the sound between monaural and stereo sound.

MONO LEFT → MONO RIGHT → MIX-MONO → STEREO → MONO LEFT

### 3. Multi-Angle Function (for Digital Video Only)

During Digital Video playback, touch the ANG OFF icon on the touch screen .
Each time the button is pressed , the number of the angel changes in sequential order .

**Notes:**
- The angle number is different according to the disc.
- The function only work for disc having scenes recorded at different angles.
- When no different angle are recorded, **"INVALID KEY"** will be displayed at screen left top corner.

### 4. Title Menu Function

**For Digital Video:**
If the Digital Video has multiple titles recorded on the disc. It can select preferred title from the title menu to start playback.
- During Digital Video playback, press TITLE button on the remote .The title menu is display.
- Select preferred title by the cursor button and confirmed by press the ENTER button .

**For VCD:**
Press **TITLE/PBC** button on the remote control while the disc is playing, you can switch between "PBC ON"and "PBC off" mode.

# Touch Screen Operation

### 5. A-B Repeat (for Digital Video and VCD)

Press the **A-B** button if you want to repeat a specific segment on a disc that you define:

1. Press the **A-B** button at a point (A) where you want it to be the start point of the repeat segment. Press the **A-B** button again at a point (B) where you want it to be the terminal point of the repeat segment. Then it will play the segment repeatedly.

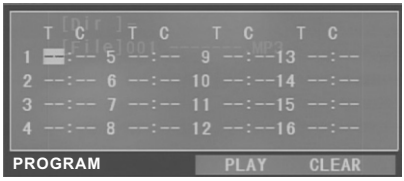
2. To cancel the A-B repeat mode and resume normal playback, press the **A-B** button for the third time.

**Note:**

During DVD playback, points A and B can be selected from different chapters.

### 6. Program Playback (for Digital Video and VCD)

It allows you to enter the order in which you want some chapters/tracks in DVD/VCD to play.
1 During playback, press the PROG button to enter a program interface as follows:




Program interface for DVD

2 Use the direction buttons to move cursor onto the desired place for inputting the sequence number.

3 Use the number button to input desired sequence number of title/ chapter/track with desired sequence.

4 After input your favour, press >II on remote or use the direction buttons to select play and then press OK on remote to play the programmed titles/ chapters/tracks in programmed order.

* Tap the display or press stop button to exit the PROG .

* During VCD playback, if it is in PBC ON mode, at the same time of entering the state of program playback, it turns off PBC mode.

### 7. Display still frame step by step (for Digital Video and VCD)

If the unit is currently playing video, press the STEP button consecutively to display still frame step by step.

Press the PLAY button to resume normal playback.

### 8.Playback with Slow Speed

During video playback , press the LOC/SLOW button to execute the Slow Forward function.

Press the PLAY button to resume normal playback.

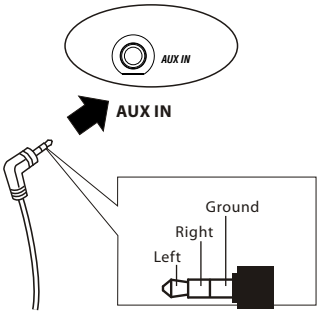
# Touch Screen Operation

## AUX Operation

On the front panel of this unit, there is an AUX IN jack, follow the diagram below to connect analogue replay devices(only for the Audio connect, if you want to connect the Video, please plug the <Video input > on the back of the unit .) . Use this jack to replay sound of other replay equipment such as Digital Video players, computers, etc. Via the loud-speakers.

1). Please connect the external device with stereo jack (3.5mm)plug the Aux in socket .

**AUX IN JACK FRONT PANEL**




2). In radio mode, touch the screen of " ⮌ " ICON to enter the main menu, touch the " AUX " ICON to enter the AUX IN mode.
In AUX mode, tap icon that the display turn dark,tap twice turn dark more, tap thrice to turn off the display, and tap anywhere of the display to turn it on again.

**AUX INTERFACE 1**

**AUX INTERFACE 2**

3). You now hear the sound from the external device played back through the loudspeakers .

The function of the icons as follow:

Tap to mute the sound.

Tap to select EQ as the same on the remote control.

Tap to turn LOUD on or off.

Tap to select subwoofer frequency.

Tap to adjust audio volume.

TA Turning pre-switching for traffic announcements on and off

AF Switching on and off an Alternative frequency

# Touch Screen Operation

## AV Operation

Please plug the <Video input > on the back of the unit .

Touch the AV IN icon to enter the AV IN mode.
In AV mode, tap icon that the display turn dark,tap twice turn dark more, tap thrice to turn off the display, and tap anywhere of the display to turn it on again.

**AV INTERFACE 1**

**AV INTERFACE 2**

As the interface show, here is only the audio output, now tap the icon, the picture of the auxiliary input video show on the display and tap the display again to turn to audio mode.

Now you can watch the video from your External video equipment such as Digital Video players, computers, etc.

The function of the icons as follow:

Tap to mute the sound.

Tap to select EQ as the same on the remote control.

Tap to turn LOUD on or off.

Tap to select subwoofer frequency.

Tap to adjust audio volume.

TA Turning pre-switching for traffic announcements on and off

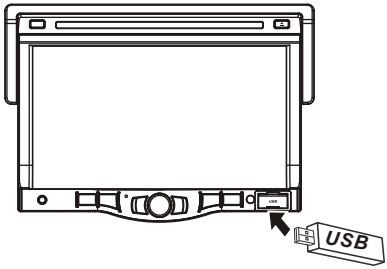
AF Switching on and off an Alternative frequency

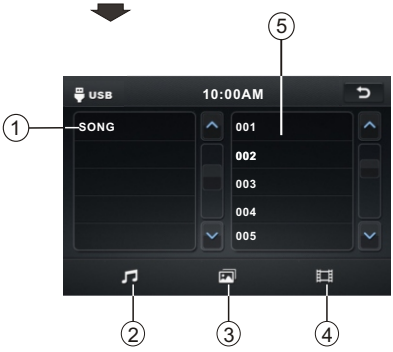
Note: To ensure safety while driving and to comply with lows, drivers should not watch video or operate the video device while driving.

# Touch Screen Operation

## USB OPERATION

Following the diagram below, connect your USB device to the front panel USB port . If it is properly connected, the device will be mounted and start playing automatically.






1 Current type (highlighted bar) .

2 Audio play mode select.

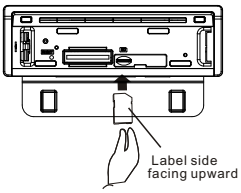
3 Picture play mode select.

4 Movie play mode select,

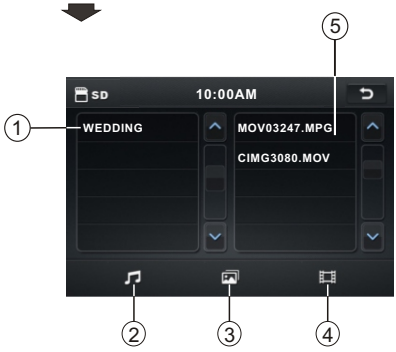
5 Current play track .

## Card OPERATION

The unit can support playback MP3/WMA/ JPEG/MP4 format which are stored on SD memory cards .
Please read the following instructions before you start using a memory card .
Inserting the card as follow:




Insert a card, push in till heard a “CLICK”, then attach the control panel again to play.




1 Current type (highlighted bar) .

2 Audio play mode select.

3 Picture play mode select.

4 Movie play mode select,

5 Current play track .

# Touch Screen Operation

## STEERING WHEEL CONTROL

Touch the SWC icon as follow to turn to steering wheel control .

During setting, touch the icon to turn to home menu.

There are 2 KEY for total 12 buttons to save, first, tap Assign to open function save, then select button 1 in KEY 1 on steering wheel and tap the icon, the icon show in button 1 position then touch Confirm, final exit the SWC mode , the function will save in button 1 of KEY 1.

The function of the icons as follow:

**Assign** Touch to begin function save.

**Confirm** After selection touch to confirm operation.

**Reset** Touch this icon to cancel the input and resume load.

**High-z** When electric resistance is too low, touch this icon to increase.

**Low-z** When electric resistance is too high, touch this icon to reduce.

# Parental Control

*** Parental Control**

Q: After inserting a Digital Video disc into the disc slot, if a dialogue box pops up and asks you to input a password, what should you do ?

A: The playing disc is locked by a rating level of parental control. If the current rating level of parental control of the Digital Video player is lower than the one of current disc, you must input the correct password of parental control to unlock the parental control and enter a rating level equal to or higher than one of the current disc in order to play the disc.

* For factory preset password of parental control of Digital Video player, please see the part of Media Setup Menu.

**Appendix: Parental Control**

Parental Control function of a Digital Video player can control playback of movie ratings on a disc. You can set the Digital Video player to be a certain rating level of parental control using the Media Setup Menu. If the rating level of parental control of a disc is higher than the one of the Digital Video player, the Digital Video player cannot play the disc.

The Digital Video movie can be designed so that the Digital Video player can play different versions of content of a particular movie according to the different rating levels of parental control. Depending on the Digital Video features, the scenes that are not suitable for children will be cleared or replaced by suitable scenes automatically.

The rating levels of Parental Control are as follows:

| | |
|---|---|
| | Unlock |
| 1 | Kid Safe |
| 2 | G |
| 3 | PG |
| 4 | PG 13 |
| 5 | PG R |
| 6 | R |
| 7 | NC 17 |
| 8 | Adult |

# Region Code

*** Region Code**

If you insert a disc into the disc slot and REGION ERROR is displayed, the car multi-media system can not play the disc. The reason is that the region codes of the car multi-media system and the used disc do not match each other.

**Appendix: Region code of D**igital Video

Motion Picture Association of America (MPAA) divided the world into 6 regions, and gave every region a region code for locking and unlocking Digital Video playback.

Basically, a coded Digital Video player can play only the discs if its region code is the same as the code of the Digital Video player. Otherwise, it cannot play the disc.

Please note that only the Digital Video discs and Digital Video players produced by the 8 biggest film-making companies of America impose this restriction. The Digital Video discs and Digital Video players not produced by the 8 biggest film-making companies of America are not restricted by the rule of region code. Generally, they are called Free Region Code or Full Region Code.

The problems caused by area code inconsistency has motivated the production of unlocked version Digital Video players and recodable Digital Video players .

Region codes and the countries or areas represented by region codes are as follows:

Region 1: America, Canada, East-Pacific Inlands;
Region 2: Japan, West Europe, North Europe, Egypt, South Africa, Middle East;
Region 3: South-east Asian countries include Taiwan, Hong Kong, South Korea, Thailand, indonesia, etc.;
Region 4: Australia, New Zealand, Central South America, South Pacific Inlands;
Region 5: Russia, Mongolia, Indian Peninsula, Middle Asia, East Europe, North Korea, North Africa, North-west Asia etc.;
Region 6: China mainland.

The 8 biggest film-making companies of America are as follows:

1. WarnerBros;
2. Columbia;
3. 20thCenturyFOX;
4. Paramount;
5. Universal;
6. UA(UnitedArtist);
7. MGM(MetroDogwynMayer);
8. WaltDisney

# Specification

**General :**

| | |
|---|---|
| Supply Voltage: | 12V DC (11V-15V) |
| Current Consumption: | Less than10 A |
| Signal System: | Compositive video 1.0Vp-p 75Ω |
| Discs Played: | (1)DIGITAL-VIDEO Disc |
| | 5"(12 cm) single-sided, single-layer |
| | 5"(12 cm) single-sided, double-layer |
| | (2)Compact Disc (CD-DA, VIDEO CD) |
| | 5"(12cm) disc |
| Audio Signal Output: | Front, Rear, and Subwoofer Output |
| Characteristics: | (1)Frequency Response 20 Hz - 20 KHz |
| | (2)S/N Ratio 90 dB (JIS) |
| | (3)Wow and Flutter Below measurable limits |

**RADIO Section:**

| | For 2 Bands (Europe) FM | For 2 Bands (U.S.A.) FM |
|---|---|---|
| Frequency Coverage: | 87.5 to108 MHz | 87.5 to107.9 Mhz |
| IF: | 10.7 MHz | 10.7 MHz |
| Sensitivity (S/N = 30 dB): | 15 dBu | 15dBu |
| | MW | AM |
| Frequency Coverage: | 522 to1620 KHz | 530 to1710 KHz |
| IF: | 450 KHz | 450 KHz |
| Sensitivity (S/N = 20 dB): | 40 dBu | 40 dBu |

**TFT Monitor:**

| | |
|---|---|
| Monitor Screen Size: | 7 Inch Wide |
| Color System: | NTSC/PAL |

**NOTE:**

Specifications and design are subject to modification, without notice, due to improvements in technology.

# Troubleshooting

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

| SYMPTOM | CAUSE | SOLUTION |
|---|---|---|
| No power | The car ignition switch is not on | If the power supply is properly connected to the car accessory terminal,switch the ignition key to "ACC" |
| | The fuse is blown | Replace the fuse |
| Disc can not be loaded or ejected | Presence of disc inside the player. | Remove the disc in the player, then put a new one |
| | Inserting the disc in reverse direction | Insert the compact disc with the label facing upward |
| | The disc is extremely dirty or defective | Clean the disc or try to play a new one |
| | Temperature inside the car is too high | Cool off or until the ambient temperature return to normal |
| Video/image appears black-white | The color system is set incorrectly | Please switch to correct color system from menu |
| No video/image appears | The unit is not connected to the parking brake detection switch | Make proper connection according to“wire connection” |
| | The parking brake is not engaged | For safety reasons no video/ images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed. |
| No color in picture | The disc format is not according to the TV-set used (PAL/NTSC) | Please choose a proper color system. |
| JPEG disc can not be played back | No JPEG files are recorded on the disc. | Change the disc |
| | JPEG files are not recorded in a compliant format | Change the disc Record JPEG files using a compliant application |
| The operation keys do not work | The built-in microcomputer is not operating properly due to noise | Press the RESET button. Front panel is not properly fixed into its place |
| The radio does not work | The antenna cable is not connected | Insert the antenna cable firmly |
| | The signals are too weak | Select a station manually |

Made in China

88-J7500-01